



PTO/SB/21 (09-04)

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/711,198
Filing Date	09/01/2004
First Named Inventor	Jiunn-Ren Hwang
Art Unit	1756
Examiner Name	YOUNG, CHRISTOPHER G

9

Attorney Docket Number

NAUP0493USA4

ENCLOSURES (Check all that apply)

- Fee Transmittal Form
- Fee Attached
- Amendment/Reply
 - After Final
 - Affidavits/declaration(s)
- Extension of Time Request
- Express Abandonment Request
- Information Disclosure Statement
- Certified Copy of Priority Document(s)
- Reply to Missing Parts/ Incomplete Application
 - Reply to Missing Parts under 37 CFR 1.52 or 1.53

- Drawing(s)
- Licensing-related Papers
- Petition
 - Petition to Convert to a Provisional Application
 - Power of Attorney, Revocation
 - Change of Correspondence Address
- Terminal Disclaimer
- Request for Refund
- CD, Number of CD(s) _____
- Landscape Table on CD

Remarks

Request for Certificate of Correction

 After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below):

1. A copy of the Front Page of Patent
2. A copy of Fee Transmittal
4. Copies of the Notice of Recordation

*Certificate
AUG 04 2006
of Correction*

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	North America Intellectual Property Corporation		
Signature	<i>Winston Hsu</i>		
Printed name	Winston Hsu		
Date	AUG 01 2006	Reg. No.	41,526

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	<i>Brenda Lin</i>		
Typed or printed name	Brenda Lin	Date	AUG 01 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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AUG 07 2006



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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known	
Application Number	10/711,198
Filing Date	09/01/2004
First Named Inventor	Jiunn-Ren Hwang
Examiner Name	YOUNG, CHRISTOPHER G
Art Unit	1756
Attorney Docket No.	NAUP0493USA4

METHOD OF PAYMENT (check all that apply)

- Check Credit Card Money Order None Other (please identify): _____
- Deposit Account Deposit Account Number: **50-3105** Deposit Account Name: North America Intellectual Property Corporation
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee
- Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Small Entity	Fee (\$)
- 20 or HP =	x	=		50	25
HP = highest number of total claims paid for, if greater than 20.				200	100
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	360	180
- 3 or HP =	x	=			

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50	(round up to a whole number)	x	=

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

Fees Paid (\$)

SUBMITTED BY			
Signature	<i>Winston Hsu</i>	Registration No. (Attorney/Agent)	41,526
Name (Print/Type)	Winston Hsu	Telephone	3027291562

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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AUG 07 2006

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Jiunn-Ren Hwang, Jui-Tsen Huang, Chang-Jyh Hsieh
Examiner: YOUNG, CHRISTOPHER G Art Unit: 1756
Patent No. : US 7,063,923 B2 Issue Date : Jun. 20, 2006
Docket No. : NAUP0493USA4

Title: OPTICAL PROXIMITY CORRECTION METHOD

To: Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Subject: Request for Certificate of Correction of Office Mistake

The name of the assignee listed on the front page of the Patent is incorrect (Attachment 1). Documents on record indicate this as an Office mistake of consequence.

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to correct the name of the assignee from "**UNITED ELECTRONICS CORP.**" to "**UNITED MICROELECTRONICS CORP.**" which was correctly listed on the Fee Transmittal submitted on 05/02/2006 (Attachment 2) and the Notice of Recordation dated 09/01/2004 (Attachment 3).

AUG 07 2006

Respectfully submitted,

Winston Hsu

Date: AUG 01 2006

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

(Note: Please leave a message in my voice mail if you need to talk to me. The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan).

AUG 07 2006

Please correct the name of the assignee from "UNITED ELECTRONICS CORP." to "UNITED MICROELECTRONICS CORP."



US007063923B2

Attachment 1

(12) United States Patent
Hwang et al.

(10) Patent No.: US 7,063,923 B2
(45) Date of Patent: Jun. 20, 2006

(54) OPTICAL PROXIMITY CORRECTION METHOD

(75) Inventors: Jiunn-Ren Hwang, Hsin-Chu (TW);
Jui-Tsen Huang, Taipei (TW);
Chang-Jyh Hsieh, Hsin-Chu (TW)

(73) Assignee: **United Electronics Corp.,** Hsin-Chu
(TW)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/711,198

(22) Filed: Sep. 1, 2004

(65) Prior Publication Data

US 2005/0009344 A1 Jan. 13, 2005

Related U.S. Application Data

(63) Continuation-in-part of application No. 10/064,413, filed on Jul. 11, 2002, now abandoned.

(51) Int. Cl.
G03F 9/00 (2006.01)

(52) U.S. Cl. 430/5; 430/30

(58) Field of Classification Search 430/5,
430/30

See application file for complete search history.

(56) References Cited**U S. PATENT DOCUMENTS**

6,001,512 A *	12/1999	Tzu et al	430/5
6,294,295 B1 *	9/2001	Lin et al	430/5

FOREIGN PATENT DOCUMENTS

JP	1-186624	7/1989
JP	3-30332	2/1991
JP	5-19446	1/1993
JP	6-266095	9/1994
JP	11-102063	4/1999

* cited by examiner

Primary Examiner—Christopher G. Young

(74) Attorney, Agent, or Firm—Winston Hsu

(57) ABSTRACT

An integrated circuit layout includes dense figures and at least one isolated figure. A plurality of dummy patterns are formed to surround the isolated figure, so as to reduce the difference in pattern density of the integrated circuit layout. A transmitted light of the dummy patterns provides a phase difference of 0 or 180 degrees relative to a transmitted light of the integrated circuit layout. The integrated circuit layout and the plurality of dummy patterns are formed on a photo-mask.

14 Claims, 3 Drawing Sheets

Attachment 2

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

027765 7590 02/02/2006

**NORTH AMERICA INTELLECTUAL PROPERTY
 CORPORATION
 P.O.BOX 506
 MERRIFIELD, VA 22116**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Janice Chen	(Depositor's name)
Janice Chen	(Signature)
05/02/2006	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,198	09/01/2004	Jiunn-Ren Hwang	NAUP0493USA4	5197

TITLE OF INVENTION: OPTICAL PROXIMITY CORRECTION METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	05/02/2006
EXAMINER	ART UNIT		CLASS-SUBCLASS		

YOUNG, CHRISTOPHER G

1756

430-005000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- Change of correspondence address (or Change of Correspondence Address Form PTO/SB/122) attached.
- "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.
2. For printing on the patent front page, list
- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
- 1 Winston Hsu _____
 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

No.3, Li-Hsin Road 2, Science-Based Industrial Park, Hsin-Chu City, Taiwan, R.O.C.

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are enclosed:

4b. Payment of Fee(s):

- Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

- A check in the amount of the fee(s) is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 50-3105 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Winston Hsu

Date 05/02/2006

Typed or printed name

Winston Hsu

Registration No. 41,526

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Attachment 3

951994



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 01, 2004

PTAS

800013504A

NAIPO (NORTH AMERICA INTERNATIONAL PATENT
P.O. BOX 506
MERRIFIELD, VA 22116

3ae

9/13

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/01/2004

REEL/FRAME: 015061/0678
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: NAUPO493USA1

ASSIGNOR:
HWANG JIUNN-BEN

DOC DATE: 07/30/2004

ASSIGNOR:
HUANG, JUI-TSEN

DOC DATE: 07/30/2004

ASSIGNOR:
HSIEH, CHANG-JYH

DOC DATE: 07/30/2004

ASSIGNEE:
UNITED MICROELECTRONIC
NO.3, LI-HSIN ROAD 2,
BASED INDUSTRIAL
PARK
HSIN-CHU CITY, TAIWAN

015061/0678 PAGE 2

SERIAL NUMBER: 10711198

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: OPTICAL PROXIMITY CORRECTION METHOD

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

PATENT ASSIGNMENT

Electronic Version v08

Stylesheet Version v02

09/01/2004

800013504

SUBMISSION TYPE:	NEW ASSIGNMENT	APPLICATION NUMBER 10/711198
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST	

CONVEYING PARTY DATA

Name	Execution Date
Jiunn-Ren Hwang	2004-07-30
Jui-Tsen Huang	2004-07-30
Chang-Jyh Hsieh	2004-07-30

RECEIVING PARTY DATA

Name	Street Address	Internal Address	City	State/Country	Postal Code
UNITED MICROELECTRONICS CORP.	No.3, Li-Hsin Road 2, Science-Based Industrial	Park	Hsin-Chu City	TAIWAN	

CORRESPONDENCE DATA

FAX NUMBER: 886229295950

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

CUSTOMER NUMBER: 027765

NAME OF PERSON SIGNING:	WINSTON HSU
DATE SIGNED:	2004-08-30

Total Attachments: 2
source=NAUP0493-4-A1ASS1.tif
source=NAUP0493-4-A1ASS2.tif

CH \$40.00 503405 10744400

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